

Mixing of high viscosity pharmaceutical products

Gentle, Low shear, Undamaged product

The challenge

The installation of the MasoSine pumps is helping pharmaceutical companies to overcome two key production challenges in the manufacture of high-viscosity products such as liquid gels and creams. These challenges include:

- Re-circulating bulk product in mixing vessels through homogenisers - an essential process to ensure the quality of the products.
- Transferring product from the mixing vessels into bulk storage containers.



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The story of success

Aeropak (Chemical Products) Ltd, a wholly owned subsidiary of Diomed Developments which handles various chemicals, is using three MasoSine sanitary pumps from Watson-Marlow Pumps Group to ensure the efficient and effective mixing of mainly aqueous and oil-based OTC and prescription medicine such as moisturising creams, and other dermatological products.

The installation of the MasoSine pumps has helped facilitate a phase of extensive increases in throughput over the course of the past five years. "The viscosity of products such as Doublebase is not a problem for the MasoSine pumps." - Graham Abraham, Projects Manager at Aeropak.

Watson-Marlow...Innovation in Full Flow

The solution

MasoSine pumps are being used by pharmaceutical manufacturers to transfer product from the mixing vessels into bulk storage containers. The gentle, low shear product handling capability of the pumps

is critical to this particular application. This feature is achieved thanks to the exclusive sinusoidal rotor integral to both SPS and MR series models, which gives a wave-like action. The single rotor design offers very low product shear, while large pumping chambers help preserve and maintain product integrity.

The MasoSine pumps are also used to help re-circulate bulk product in mixing vessels through homogenisers. This is an essential process to ensure the quality of the products.



Customer success

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For Aeropak, the key word is flexibility. Some of the products manufactured exhibit high viscosity characteristics. This includes the well-known Doublebase emollient gel, which is thick-shear sensitive and effective mixing is critical to its performance. "The viscosity of products such as Doublebase is not a problem for the MasoSine pumps," says Graham Abraham, Projects Manager at Aeropak. "They work away without any issues. Because of their simple design (one rotor, one shaft, one seal), economical in-line maintenance and cleaning is also achieved easily."

Watson-Marlow MasoSine
Falmouth, Cornwall TR11 4RU England
Tel: +44 (0)1326 370370 Fax: +44 (0)1326 376009
www.wmpg.co.uk info@wmpg.co.uk

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MARLOW**
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